

# K 211-1 (Sep, 7, 2001)

Described by M.Coombs

**Sample Size :** X= 24 cm, Y= 15 cm, Z= 11 cm; **Weight:** 2.2kg

**Mn coating :** <<1 mm; **Color (inside the rock):** dk grey clasts

**Alteration:** no weak strong\* **Vesicularity** N/A %

**Lithology:** monomict or polymict\*

**Occurrence:** lava hyaloclastite volcanoclastics\* others

## Rock types (lava and hyaloclastite)

Thickness of glass \_\_\_\_\_ mm

Picrite:	Phenocrysts=	%,	%
Ol basalt	Phenocrysts=	%,	%
Pl-ol basalt	Phenocrysts=	%,	%
Aphyric rock	Phenocrysts=	%,	%
Others	Phenocrysts=	%,	%

Remarks \_\_\_\_\_

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## Volcanoclastic rocks and others (characteristic of the clasts)

Fragments comp.: mono poly\*

Rock type: aphyric B, porphyritic B, picrite, others

Grain size (mm) : \* < 1 - 2 - 4 - 8 - 16 - 32 - 64\* - 128 - 256 <

Sorting : well-----poorly\*

Roundness : round-----\*-----angular

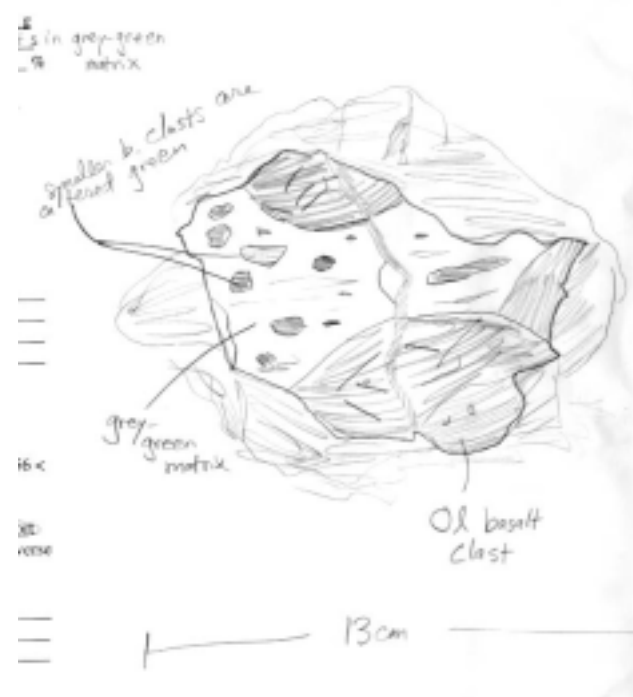
Fabric: clast-support ----- matrix support\*

Grading normal-----none\*-----reverse

Matri silt sand paragonaite volcanic glass  
 Lithified\* or unlithified

Sedimentary structure: \_\_\_\_\_

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 \_\_\_\_\_



# K 211-2 (Sep, 7, 2001)

Described by T. Hanyu

**Sample Size** : X= 17 cm, Y= 7 cm, Z= 5 cm; **Weight**: 500g  
**Mn coating** : very thin mm; **Color (inside the rock)**: greenish gray  
**Alteration**: no weak strong; **Vesicularity** \_\_\_\_\_ %  
**Lithology**: monomict or polymict\*  
**Occurrence**: lava hyaloclastite\* volcanics others

## Rock types (lava and hyaloclastite)

Thickness of glass		mm	
Picrite:	Phenocrysts=	%,	%
Ol basalt	Phenocrysts=	%,	%
Pl-ol basalt	Phenocrysts=	%,	%
Aphyric rock	Phenocrysts=	%,	%
Others	Phenocrysts=	%,	%

Remarks \_\_\_\_\_  
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## Volcaniclastic rocks and others (characteristic of the clasts)

Fragments comp.: mono poly\*  
 Rock type: aphyric B\*, porphyritic B, picrite, others  
 Grain size (mm) : < 1\* - 2 - 4 - 8 - 16 - 32\* - 64 - 128 - 256 <  
 Sorting : well-----poorly\*  
 Roundness : round-----angular\*  
 Fabric: clast-support ----- matrix support\*  
 Grading normal-----none\*-----reverse  
 Matri silt sand \* paragonaite volcanic glass\*  
 Lithified or unlithified

Sedimentary structure: \_\_\_\_\_  
 \_\_\_\_\_  
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# K 211-3a (Sep, 7, 2001)

Described by J. Kimura

**Sample Size** : X= 12 cm, Y= 9 cm, Z= 5 cm; **Weight**: 600g

**Mn coating** : trace mm; **Color (inside the rock)**: black

**Alteration**: no\* weak strong; **Vesicularity** 1 %

**Lithology**: monomict or polymict

**Occurrence**: lava\* hyaloclastite volcanoclastics others

## Rock types (lava and hyaloclastite)

Thickness of glass 5 mm

Picrite: Phenocrysts= %, %

Ol basalt\* Phenocrysts= 5 %, %

Pl-ol basalt Phenocrysts= %, %

Aphyric rock Phenocrysts= %, %

Others Phenocrysts= %, %

Remarks \_\_\_\_\_

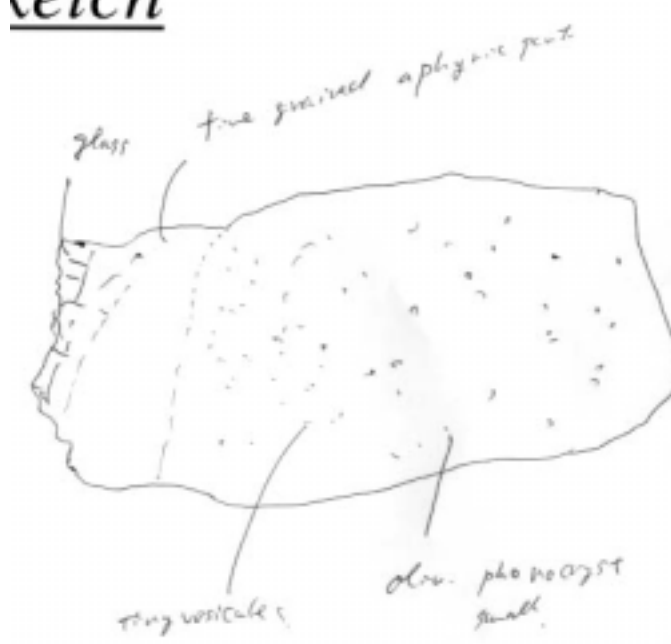
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## Volcanoclastic rocks and others (characteristic of the clasts)

Fragments comp.: mono poly  
 Rock type: aphyric B, porphyritic B, picrite, others  
 Grain size (mm) : < 1 - 2 - 4 - 8 - 16 - 32 - 64 - 128 - 256 <  
 Sorting : well-----poorly  
 Roundness : round-----angular  
 Fabric: clast-support ----- matrix support  
 Grading normal-----none-----reverse  
 Matri silt sand paragonaite volcanic glass  
 Lithified or unlithified

Sedimentary structure: \_\_\_\_\_

\_\_\_\_\_  
 \_\_\_\_\_



# K 211-3b (Sep, 7, 2001)

Described by J. Kimura

**Sample Size** : X= 9 cm, Y= 8 cm, Z= 8 cm; **Weight**: 400g

**Mn coating** : trace mm; **Color (inside the rock)**: black

**Alteration**: no\* weak strong; **Vesicularity** 7 %

**Lithology**: monomict or polymict

**Occurrence**: lava\* hyaloclastite volcanoclastics others

## Rock types (lava and hyaloclastite)

Thickness of glass \_\_\_\_\_ mm

Picrite:	Phenocrysts=		%,	%
Ol basalt*	Phenocrysts=	ol: 5	%,	%
Pl-ol basalt	Phenocrysts=		%,	%
Aphyric rock	Phenocrysts=		%,	%
Others	Phenocrysts=		%,	%

Remarks \_\_\_\_\_

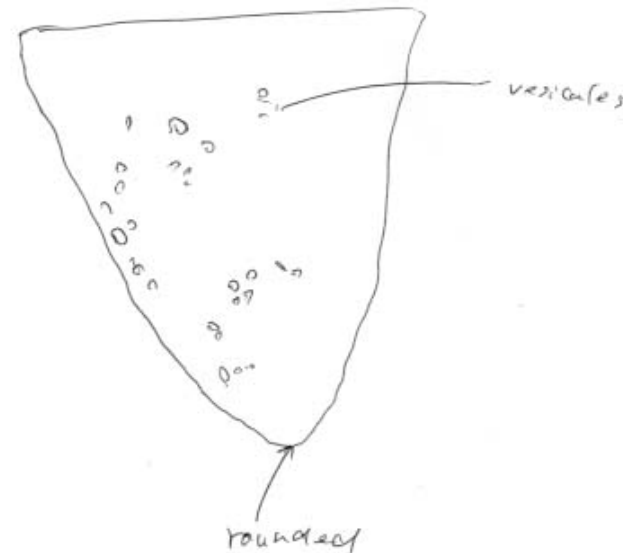
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## Volcanoclastic rocks and others (characteristic of the clasts)

Fragments comp.: mono poly  
 Rock type: aphyric B, porphyritic B, picrite, others  
 Grain size (mm) : < 1 - 2 - 4 - 8 - 16 - 32 - 64 - 128 - 256 <  
 Sorting : well-----poorly  
 Roundness : round-----angular  
 Fabric: clast-support ----- matrix support  
 Grading normal-----none-----reverse  
 Matri silt sand paragonaite volcanic glass  
 Lithified or unlithified

Sedimentary structure: \_\_\_\_\_

\_\_\_\_\_  
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# K 211-4 (Sep, 7, 2001)

Described by J. Kimura

**Sample Size** : X= 12 cm, Y= 9 cm, Z= 9 cm; **Weight**: 600g

**Mn coating** : 0.1 mm; **Color (inside the rock)**: dark gray

**Alteration**: no weak\* strong; **Vesicularity** 1 %

**Lithology**: monomict or polymict

**Occurrence**: lava\* hyaloclastite volcanoclastics others

## Rock types (lava and hyaloclastite)

Thickness of glass 0 mm

Picrite:	Phenocrysts=		%,		%
Ol basalt*	Phenocrysts=	ol: 10	%,	pl: 5	%
Pl-ol basalt	Phenocrysts=		%,		%
Aphyric rock	Phenocrysts=		%,		%
Others	Phenocrysts=		%,		%

Remarks \_\_\_\_\_

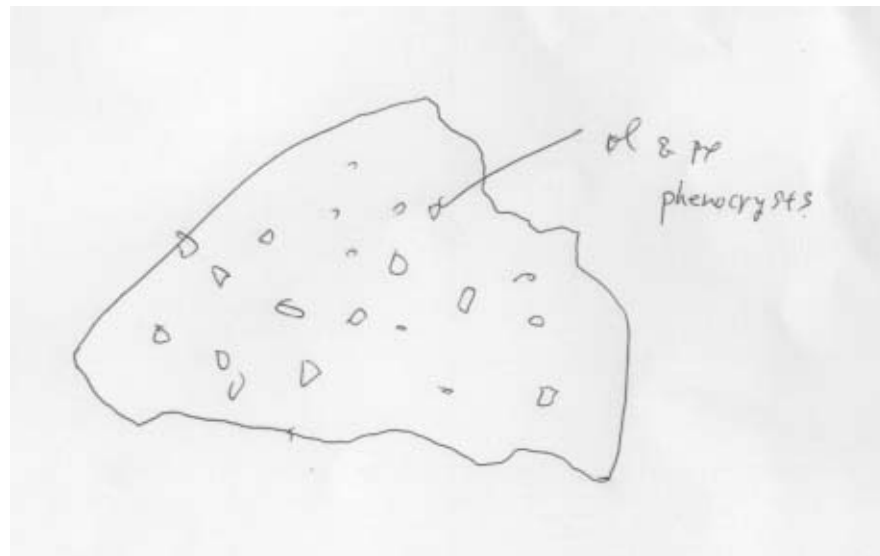
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## Volcanoclastic rocks and others (characteristic of the clasts)

Fragments comp.:	mono	poly
Rock type:	aphyric B, porphyritic B, picrite, others	
Grain size (mm) :	< 1 - 2 - 4 - 8 - 16 - 32 - 64 - 128 - 256 <	
Sorting :	well-----	poorly
Roundness :	round-----	angular
Fabric:	clast-support -----	matrix support
Grading	normal-----	none-----reverse
Matri	silt sand paragonaite volcanic glass	
	Lithified or unlithified	

Sedimentary structure: \_\_\_\_\_

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# K 211-5a (Sep, 7, 2001)

Described by J. Kimura

**Sample Size** : X= 28 cm, Y= 11 cm, Z= 11 cm; **Weight**: 6kg

**Mn coating** : trace mm; **Color (inside the rock)**: black

**Alteration**: no weak\* strong; **Vesicularity** 3 %

**Lithology**: monomict or polymict

**Occurrence**: lava\* hyaloclastite volcanics others

## Rock types (lava and hyaloclastite)

Thickness of glass 0 mm

Picrite*	Phenocrysts=	ol: 15 %,	%
Ol basalt	Phenocrysts=	%,	%
Pl-ol basalt	Phenocrysts=	%,	%
Aphyric rock	Phenocrysts=	%,	%
Others	Phenocrysts=	%,	%

Remarks \_\_\_\_\_

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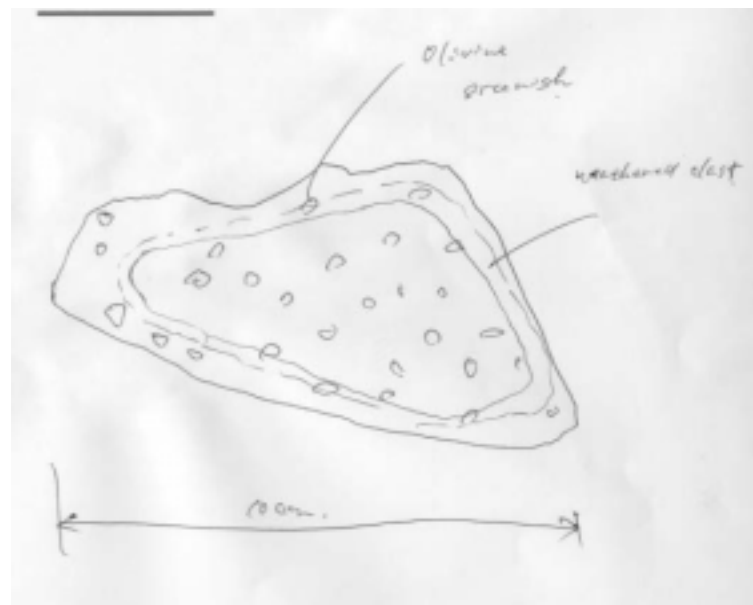
## Volcaniclastic rocks and others (characteristic of the clasts)

Fragments comp.:	mono	poly
Rock type:	aphyric B, porphyritic B, picrite, others	
Grain size (mm) :	< 1 - 2 - 4 - 8 - 16 - 32 - 64 - 128 - 256 <	
Sorting :	well-----	poorly
Roundness :	round-----	angular
Fabric:	clast-support -----	matrix support
Grading	normal-----	none-----reverse
Matri	silt sand paragonaite volcanic glass	
	Lithified or un lithified	

Sedimentary structure: \_\_\_\_\_

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\_\_\_\_\_



# K 211-5b (Sep, 7, 2001)

Described by M.Coombs

Sample Size : X= 15 cm, Y= 12 cm, Z= 8 cm; Weight: 1.5kg  
 Mn coating : 0 mm; Color (inside the rock): grey  
 Alteration: no weak\* strong; Vesicularity \_\_\_\_\_ %  
 Lithology: monomict\* or polymict  
 Occurrence: lava \* hyaloclastite volcanics others

## Rock types (lava and hyaloclastite)

Thickness of glass 0 mm

Picrite:	Phenocrysts=	%,	%
Ol basalt*	Phenocrysts=	ol: 10 %,	%
Pl-ol basalt	Phenocrysts=	%,	%
Aphyric rock	Phenocrysts=	%,	%
Others	Phenocrysts=	%,	%

Remarks \_\_\_\_\_

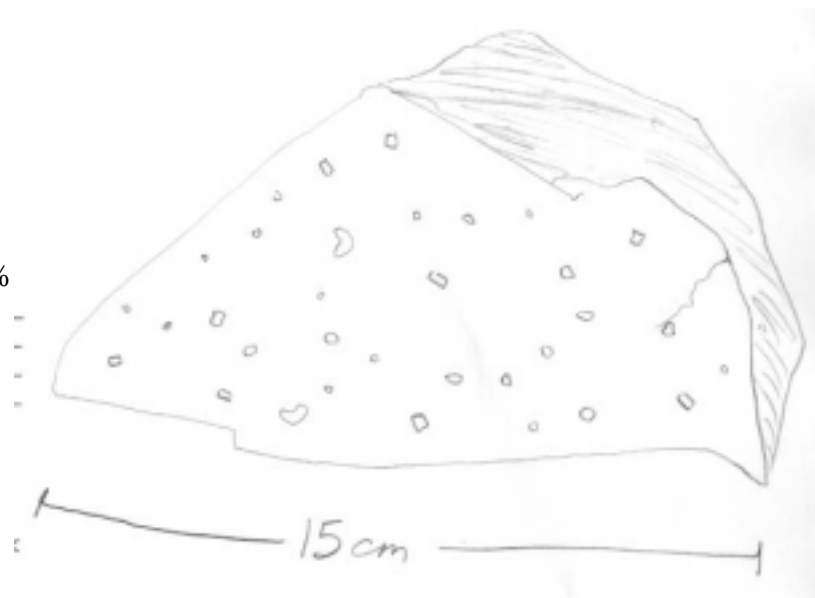
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## Volcaniclastic rocks and others (characteristic of the clasts)

Fragments comp.:	mono	poly
Rock type:	aphyric B, porphyritic B, picrite, others	
Grain size (mm) :	< 1 - 2 - 4 - 8 - 16 - 32 - 64 - 128 - 256 <	
Sorting :	well-----	poorly
Roundness :	round-----	angular
Fabric:	clast-support -----	matrix support
Grading	normal-----	none-----reverse
Matri	silt sand paragonaite volcanic glass	
	Lithified or unlithified	

Sedimentary structure: \_\_\_\_\_

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\_\_\_\_\_



# K 211-6a (Sep, 7, 2001)

Described by T,Kani

Sample Size : X= 9 cm, Y= 8 cm, Z= 7 cm; Weight: 500g

Mn coating : 0 mm; Color (inside the rock): black

Alteration: no weak\* strong; Vesicularity 10 %

Lithology: monomict\* or polymict

Occurrence: lava\* hyaloclastite volcanics others

## Rock types (lava and hyaloclastite)

Thickness of glass 0 mm

Picrite: Phenocrysts= %, %

Ol basalt\* Phenocrysts= 15 %, %

Pl-ol basalt Phenocrysts= %, %

Aphyric rock Phenocrysts= %, %

Others Phenocrysts= %, %

Remarks \_\_\_\_\_

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## Volcaniclastic rocks and others (characteristic of the clasts)

Fragments comp.: mono poly

Rock type: aphyric B, porphyritic B, picrite, others

Grain size (mm) : < 1 - 2 - 4 - 8 - 16 - 32 - 64 - 128 - 256 <

Sorting : well-----poorly

Roundness : round-----angular

Fabric: clast-support ----- matrix support

Grading normal-----none-----reverse

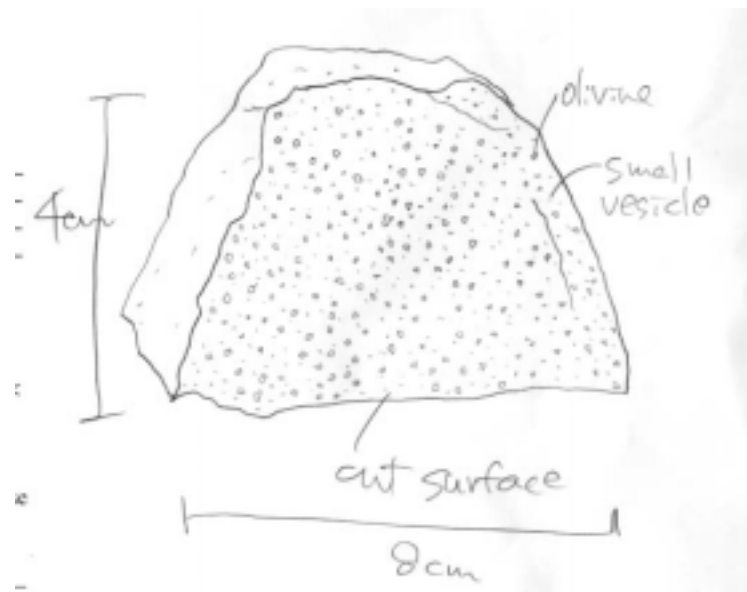
Matri silt sand paragonite volcanic glass

Lithified or unlithified

Sedimentary structure: \_\_\_\_\_

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# K 211-6b (Sep, 7, 2001)

Described by T. Hanyu

Sample Size : X= 8 cm, Y= 8 cm, Z= 7 cm; Weight: 500g

Mn coating : very thin mm; Color (inside the rock) : gray

Alteration: no\* \*weak strong; Vesicularity 3 %

Lithology: monomict\* or polymict

Occurrence: lava\* hyaloclastite volcanics others

## Rock types (lava and hyaloclastite)

Thickness of glass 5 mm

Picrite\* Phenocrysts= ol: 10 %, %

Ol basalt Phenocrysts= %, %

Pl-ol basalt Phenocrysts= %, %

Aphyric rock Phenocrysts= %, %

Others Phenocrysts= %, %

Remarks \_\_\_\_\_

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## Volcaniclastic rocks and others (characteristic of the clasts)

Fragments comp.: mono poly

Rock type: aphyric B, porphyritic B, picrite, others

Grain size (mm) : < 1 - 2 - 4 - 8 - 16 - 32 - 64 - 128 - 256 <

Sorting : well-----poorly

Roundness : round-----angular

Fabric: clast-support ----- matrix support

Grading normal-----none-----reverse

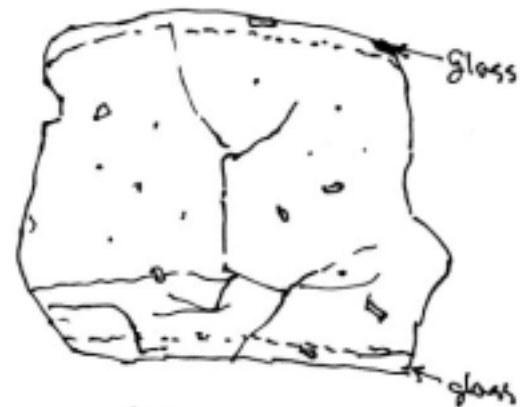
Matri silt sand paragonite volcanic glass

Lithified or unlithified

Sedimentary structure: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_



olivine  
wehrlite  
monocryst  
max 5mm size

vesicles  
very small



# K 211-7 (Sep, 7, 2001)

Described by P. Lipman

Sample Size : X= 22 cm, Y= 14 cm, Z= 9 cm; Weight: 5kg

Mn coating : <1 mm; Color (inside the rock): black

Alteration: no\* weak strong; Vesicularity 0 %

Lithology: monomict or polymict

Occurrence: lava\* hyaloclastite volcanoclastics others

## Rock types (lava and hyaloclastite)

Thickness of glass 0 mm

Picrite\* Phenocrysts= 20 %, %

Ol basalt Phenocrysts= %, %

Pl-ol basalt Phenocrysts= %, %

Aphyric rock Phenocrysts= %, %

Others Phenocrysts= %, %

Remarks \_\_\_\_\_

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## Volcanoclastic rocks and others (characteristic of the clasts)

Fragments comp.: mono poly

Rock type: aphyric B, porphritic B, picrite, others

Grain size (mm) : < 1 - 2 - 4 - 8 - 16 - 32 - 64 - 128 - 256 <

Sorting : well-----poorly

Roundness : round-----angular

Fabric: clast-support ----- matrix support

Grading normal-----none-----reverse

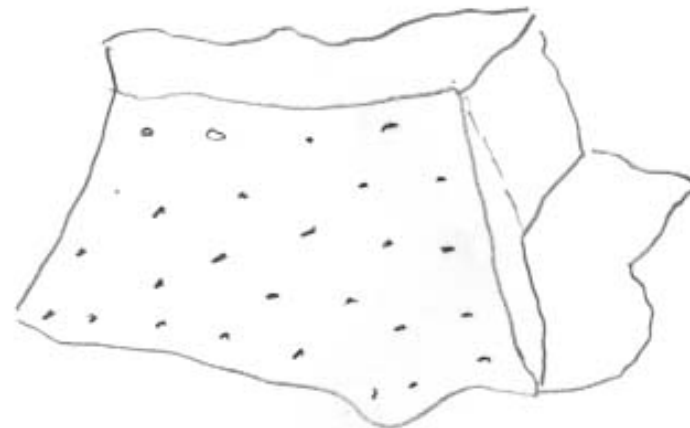
Matri silt sand paragonaite volcanic glass

Lithified or un lithified

Sedimentary structure: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_



# K 211-8 (Sep, 7, 2001)

Described by M.Coombs

Sample Size : X= 19 cm, Y= 12 cm, Z= 9 cm; Weight: 1kg

Mn coating : <<1 mm; Color (inside the rock): light grey

Alteration: no weak\* strong; Vesicularity N/A %

Lithology: monomict or polymict\*

Occurrence: lava hyaloclastite volcanoclastics\* others

## Rock types (lava and hyaloclastite)

Thickness of glass \_\_\_\_\_ mm

Picrite:	Phenocrysts=	%,	%
Ol basalt	Phenocrysts=	%,	%
Pl-ol basalt	Phenocrysts=	%,	%
Aphyric rock	Phenocrysts=	%,	%
Others	Phenocrysts=	%,	%

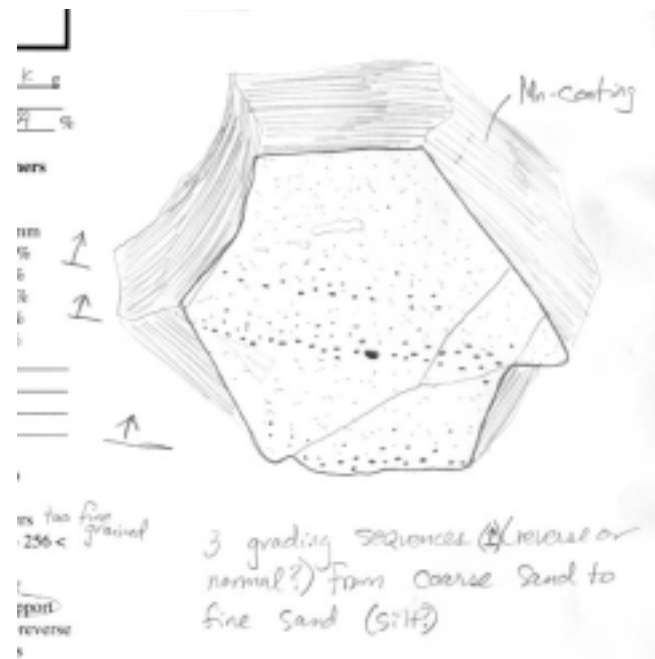
Remarks \_\_\_\_\_

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## Volcanoclastic rocks and others (characteristic of the clasts)

Fragments comp.:	mono	poly *
Rock type:	aphyric B, porphyritic B, picrite, others	
Grain size (mm) :	* < 1 - 2 * - 4 - 8 - 16 - 32 - 64 - 128 - 256 <	
Sorting :	well*	-----poorly
Roundness :	round-----*	-----angular
Fabric:	clast-support	----- matrix support*
Grading	normal-----none-----	-----reverse
Matri	silt sand * paragonaite volcanic glass	
	Lithified* or unlithified	

Sedimentary structure: \_\_\_ nice grading is present but orientation of rock is not known SANDSTONE \_\_\_\_\_



# K 211-9 (Sep, 7, 2001)

Described by M. Nakagawa

**Sample Size** : X= 10 cm, Y= 8 cm, Z= 6 cm; **Weight**: 200g

**Mn coating** : <0, 2-3 mm; **Color (inside the rock)**: dark grey

**Alteration**: no\* weak strong; **Vesicularity** several %

**Lithology**: monomict\* or polymict

**Occurrence**: lava \* hyaloclastite volcanoclastics others

## Rock types (lava and hyaloclastite)

Thickness of glass 12 mm

Picrite: Phenocrysts= %, %

Ol basalt\* Phenocrysts= ol: 10 %, cpx: 2 %

Pl-ol basalt Phenocrysts= %, %

Aphyric rock Phenocrysts= %, %

Others Phenocrysts= %, %

Remarks \_\_\_\_\_ Heterogeneous : porphyritic and aphyric parts

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## Volcanoclastic rocks and others (characteristic of the clasts)

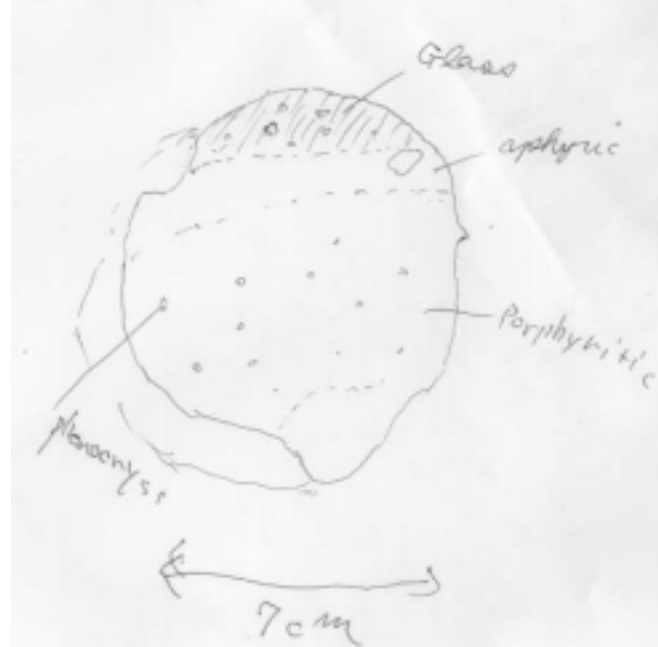
Fragments comp.: mono poly  
 Rock type: aphyric B, porphyritic B, picrite, others  
 Grain size (mm) : < 1 - 2 - 4 - 8 - 16 - 32 - 64 - 128 - 256 <  
 Sorting : well-----poorly  
 Roundness : round-----angular  
 Fabric: clast-support ----- matrix support  
 Grading normal-----none-----reverse  
 Matri silt sand paragonaite volcanic glass  
 Lithified or unlithified

Sedimentary structure: \_\_\_\_\_

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# K 211-10 (Sep, 7, 2001)

Described by T. Sisson

Sample Size : X= 14 cm, Y= 12 cm, Z= 9 cm; Weight: 1.3kg

Mn coating : <0.5 mm; Color (inside the rock): black

Alteration: no\* weak strong; Vesicularity <2 %

Lithology: monomict\* or polymict

Occurrence: lava\* hyaloclastite volcanoclastics others

## Rock types (lava and hyaloclastite)

Thickness of glass 0 mm

Picrite\* Phenocrysts= ol: 15 %, %

Ol basalt Phenocrysts= %, %

Pl-ol basalt Phenocrysts= %, %

Aphyric rock Phenocrysts= %, %

Others Phenocrysts= %, %

Remarks \_\_\_\_\_ rounded outer surface ; olivine has wide size range

## Volcanoclastic rocks and others (characteristic of the clasts)

Fragments comp.: mono poly

Rock type: aphyric B, porphyritic B, picrite, others

Grain size (mm) : < 1 - 2 - 4 - 8 - 16 - 32 - 64 - 128 - 256 <

Sorting : well-----poorly

Roundness : round-----angular

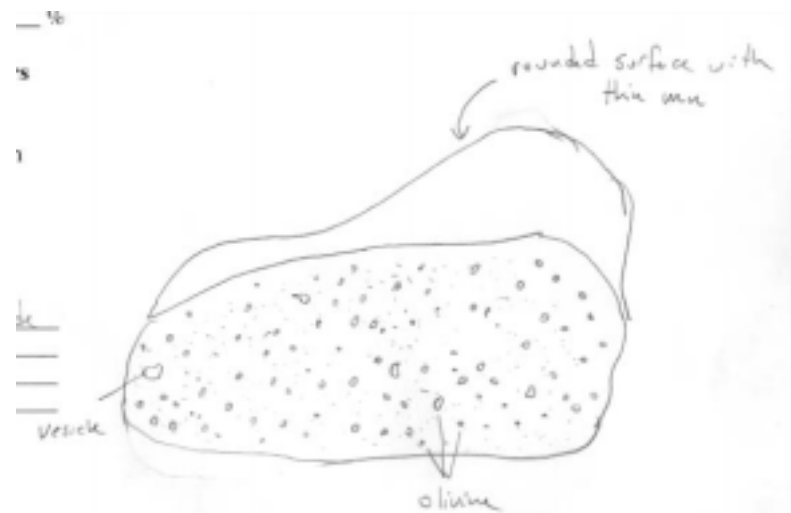
Fabric: clast-support ----- matrix support

Grading normal-----none-----reverse

Matri silt sand paragonaite volcanic glass

Lithified or unlithified

Sedimentary structure: \_\_\_\_\_



# K 211-11 (Sep, 7, 2001)

Described by T. Sisson

Sample Size : X= cm, Y= cm, Z= cm; Weight: \_\_\_\_\_g

Mn coating : mm; Color (inside the rock): \_\_\_\_\_

Alteration: no weak strong; Vesicularity \_\_\_\_\_%

Lithology: monomict or polymict

Occurrence: lava hyaloclastite volcanoclastics others \*

## Rock types (lava and hyaloclastite)

Thickness of glass \_\_\_\_\_mm

Picrite: Phenocrysts= %, %

Ol basalt Phenocrysts= %, %

Pl-ol basalt Phenocrysts= %, %

Aphyric rock Phenocrysts= %, %

Others Phenocrysts= %, %

Remarks \_\_\_\_\_

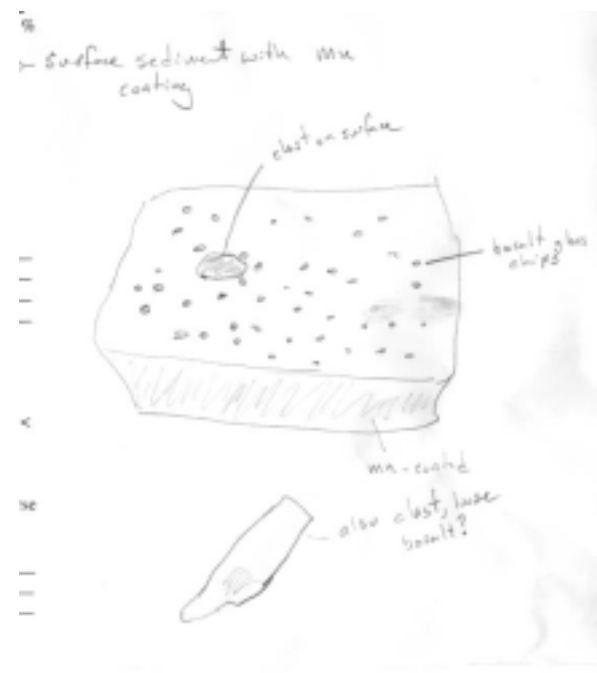
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## Volcanoclastic rocks and others (characteristic of the clasts)

Fragments comp.: mono poly  
 Rock type: aphyric B, porphyritic B, picrite, others  
 Grain size (mm) : \* < 1 - 2 - 4 - 8 - 16\* - 32 - 64 - 128 - 256 <  
 Sorting : well-----\*-----poorly  
 Roundness : round-----angular\*  
 Fabric: clast-support ---\*----- matrix support  
 Grading normal-----none-----reverse  
 Matri silt\* sand\* paragonaite volcanic glass  
 Lithified or unlithified

Sedimentary structure: \_\_\_\_\_

\_\_\_\_\_  
 \_\_\_\_\_



# K 211-12a (Sep, 7, 2001)

Described by H. Mashima

Sample Size : X= 18 cm, Y= 10 cm, Z= 9 cm; Weight: 1kg

Mn coating : <0.5 mm; Color (inside the rock): dark gray

Alteration: no weak\* strong; Vesicularity 20 %

Lithology: monomict \* or polymict

Occurrence: lava\* hyaloclastite volcanics others

## Rock types (lava and hyaloclastite)

Thickness of glass			mm
Picrite*	Phenocrysts=	30 %,	%
Ol basalt	Phenocrysts=	%,	%
Pl-ol basalt	Phenocrysts=	%,	%
Aphyric rock	Phenocrysts=	%,	%
Others	Phenocrysts=	%,	%

Remarks \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

## Volcaniclastic rocks and others (characteristic of the clasts)

Fragments comp.: mono poly  
 Rock type: aphyric B, porphyritic B, picrite, others  
 Grain size (mm) : < 1 - 2 - 4 - 8 - 16 - 32 - 64 - 128 - 256 <  
 Sorting : well-----poorly  
 Roundness : round-----angular  
 Fabric: clast-support ----- matrix support  
 Grading normal-----none-----reverse  
 Matri silt sand paragonaite volcanic glass  
 Lithified or unlithified

Sedimentary structure: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_



# K 211-12b (Sep, 7, 2001)

Described by T. Kani

Sample Size : X= 17 cm, Y= 12 cm, Z= 10 cm; Weight: 500g

Mn coating : mm; Color (inside the rock): black

Alteration: no weak\* strong; Vesicularity 70%

Lithology: monomict\* or polymict

Occurrence: lava\* hyaloclastite volcanics others

## Rock types (lava and hyaloclastite)

Thickness of glass 0 mm

Picrite:	Phenocrysts=	%,	%
Ol basalt	Phenocrysts=	%,	%
Pl-ol basalt	Phenocrysts=	%,	%
Aphyric rock*	Phenocrysts=	%,	%
Others	Phenocrysts=	%,	%

Remarks \_\_\_\_\_

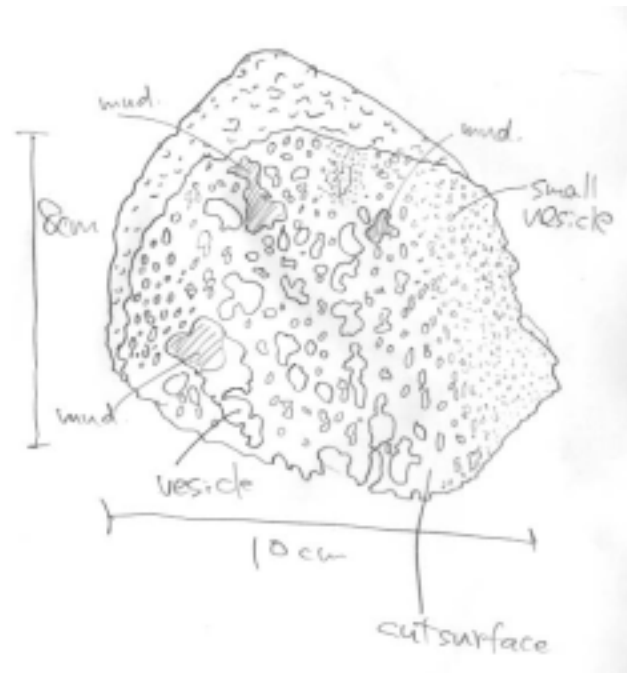
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## Volcaniclastic rocks and others (characteristic of the clasts)

Fragments comp.: mono poly  
 Rock type: aphyric B, porphyritic B, picrite, others  
 Grain size (mm) : < 1 - 2 - 4 - 8 - 16 - 32 - 64 - 128 - 256 <  
 Sorting : well-----poorly  
 Roundness : round-----angular  
 Fabric: clast-support ----- matrix support  
 Grading normal-----none-----reverse  
 Matri silt sand paragonaite volcanic glass  
 Lithified or unlithified

Sedimentary structure: \_\_\_\_\_

\_\_\_\_\_  
 \_\_\_\_\_





# K 211-13 (Sep, 7, 2001)

Described by T. Hanyu

Sample Size : X= 16 cm, Y= 13 cm, Z= 11 cm; Weight: 3kg

Mn coating : very thin mm; Color (inside the rock): gray

Alteration: no\* weak\* strong; Vesicularity 3 %

Lithology: monomict\* or polymict

Occurrence: lava\* hyaloclastite volcanoclastics others

## Rock types (lava and hyaloclastite)

Thickness of glass <10 mm

Picrite	Phenocrysts=	ol: 15 %,	%
Ol basalt	Phenocrysts=	%,	%
Pl-ol basalt	Phenocrysts=	%,	%
Aphyric rock	Phenocrysts=	%,	%
Others	Phenocrysts=	%,	%

Remarks \_\_\_\_\_

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

## Volcanoclastic rocks and others (characteristic of the clasts)

Fragments comp.:	mono	poly
Rock type:	aphyric B, porphyritic B, picrite, others	
Grain size (mm) :	< 1 - 2 - 4 - 8 - 16 - 32 - 64 - 128 - 256 <	
Sorting :	well-----	poorly
Roundness :	round-----	angular
Fabric:	clast-support -----	matrix support
Grading	normal-----	none-----reverse
Matri	silt sand paragonite volcanic glass	
	Lithified or un lithified	

Sedimentary structure: \_\_\_\_\_

\_\_\_\_\_  
 \_\_\_\_\_

